UNIVERSITY AT ALBANY
State University of New York

College of Arts and Sciences
Department of Mathematics and Statistics

Algebra/Topology Seminar

Patrick DeBonis
Purdue University

Jones–Schmidt Stability for Thompson-Like Groups from Cloning Systems

Thursday, April 11, 2024
3:00 p.m. in BB-B010

Abstract. A special class of inner amenable groups are those which are stable in the sense of Jones and Schmidt. For stable groups, there always exists an action that gives rise to a cross product von Neumann algebra which is a McDuff II_1 factor, i.e., $M \cong M \otimes \mathcal{R}$, where $\mathcal{R}$ is the hyperfinite II_1 factor. Following the work of Bashwinger and Zaremsky, we show that a certain class of groups arising from the Thompson-like group construction of Skipper, Witzel, and Zaremsky are stable groups, providing new examples of McDuff von Neumann algebras. Time permitting, I will discuss other von Neumann algebraic properties of the Thompson group V. This is joint work with Rolando de Santiago and Krishnendu Khan.